

Instructions

Pressure Transmitter

LHCR-51, LHCS-51

4 mA ... 20 mA HART, PROFIBUS PA

Ex ic IIC T6...T4 Gc

IECEX DEK 13.0056



SI004930-B

Safety instructions for electrical apparatus for explosion-hazardous areas according to IEC standards





Pressure Transmitter LHCR-51, LHCS-51

4 mA ... 20 mA HART, PROFIBUS PA

Associated Documentation	This document is an integral part of the following operating instructions: BA00382O. The operating instructions which are supplied and correspond to the device type apply.			
Supplementary Documentation	Explosion protection manual			
Designation	Explanation of the labelling and type of protection can be found in the explosion protection manual.			
	Designation according to IECEx Equipment protection level (EPL)	Gc		
	Designation of type of protection/ level of protection	Ex ic IIC T6...T4 Gc		
Applied standards	IEC 60079-0:2011 IEC 60079-11:2011			

Safety instructions:
Installation

EN

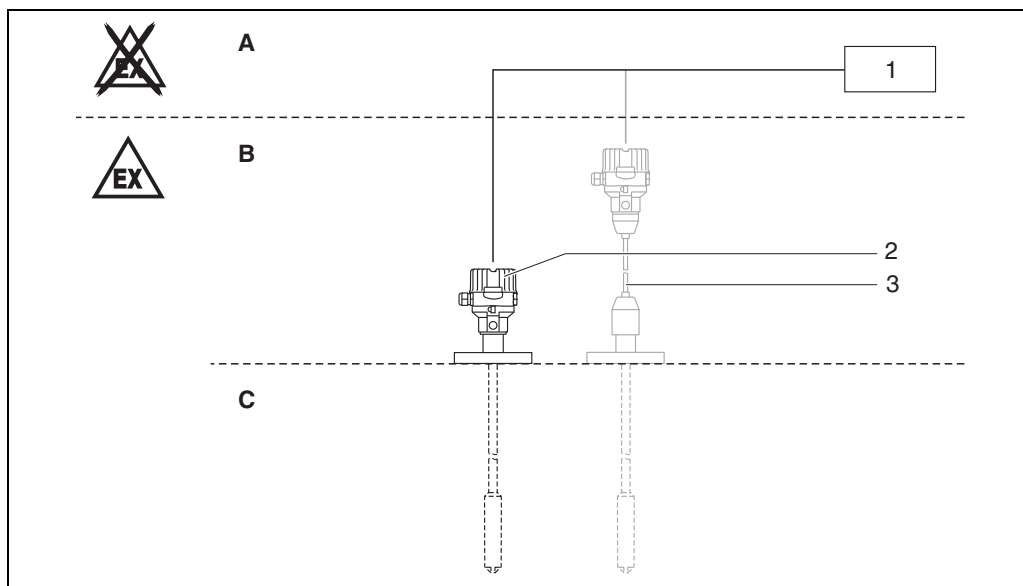


Figure 1

- A Power supply
- B Zone 2, Electronic
- C Zone 2, Process
- 1 Certified associated apparatus
- 2 LHCR-51 or LHCS-51
- 3 Option: Separate housing

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations.
- Only install the devices in media for which the wetted materials have sufficient durability.
- Avoid electrostatic charging of the plastic surfaces, for plastic process connections or plastic coatings.
- The intrinsically safe input power circuit of the device is isolated from ground potential and has a dielectric strength of at least 500 V_{rms} with respect to it.
- Avoid impact or friction sparks for light metal flanges or flange faces (e. g. titanium, zirconium).
- In case of additional or alternative special varnishing of the enclosure or other metallic parts the danger of an electrostatic charging must be observed. Do not rub surfaces with dry cloth.

LHCR-51

- Mechanically fix rod probes which are more than 3 m (e. g. using guy ropes).

LHCS-51

- Avoid electrostatic charging of the cable.
- Secure probes against swinging.

Service connection

- For service operations a field communicator can be connected to the display socket.
- Comply with the safety instructions of the field communicator.

Temperature tables

Type	Type of protection/ level of protection	Temperature class	Process temperature	Ambient temperature (housing)
LHCR-51	Ex ic IIC T6...T4 Gc	T6	≤ 80 °C	-40 °C ≤ Ta ≤ +40 °C
		T4	≤ 85 °C	-40 °C ≤ Ta ≤ +70 °C

The process temperatures refer to the temperature at the rod
(do not exceed the max. ambient temperature at the housing).

Type	Type of protection/ level of protection	Temperature class	Process temperature	Ambient temperature (housing)
LHCS-51	Ex ic IIC T6...T4 Gc	T6	≤ 80 °C	-40 °C ≤ Ta ≤ +40 °C
		T4	≤ 80 °C	-40 °C ≤ Ta ≤ +70 °C

The process temperatures refer to the temperature at the cable
(do not exceed the max. ambient temperature at the housing).

Connection data

Electronic insert	Electrical data
4 mA ... 20 mA HART	Ui ≤ 45 V DC li ≤ 300 mA Pi ≤ 1 W Ci ≤ 10 nF Li = 0
PROFIBUS PA	Ui ≤ 32 V DC li ≤ 250 mA Pi ≤ 1.2 W Ci ≤ 5 nF Li ≤ 10 μH



With regard to the supply of products, the current issue of the following document is applicable: The General Terms of Delivery for Products and Services of the Electrical Industry, published by the Central Association of the "Elektrotechnik und Elektroindustrie (ZVEI) e.V." including the supplementary clause: "Erweiterter Eigentumsvorbehalt".

PROCESS AUTOMATION – PROTECTING YOUR PROCESS



Worldwide Headquarters

Pepperl+Fuchs GmbH
68307 Mannheim · Germany
Tel. +49 621776-0
E-mail: info@de.pepperl-fuchs.com

For the Pepperl+Fuchs representative
closest to you check www.pepperl-fuchs.com/pfcontact

www.pepperl-fuchs.com

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